

Design Technology - Long term plan 2022/2023

	Autumn 1 Impact	Autumn 2 Impact	Spring 1 Change	Spring 2 Change	Summer 1 Community	Summer 2 Community
Oak Year R	Expressive Arts and Design: Creating with Materials Children will safely use and explore a variety of materials, tools and techniques, experimenting with colour, design, texture, form and function. Children will share their creations, explaining the process they have used					
	Cooking and nutrition – food banks, Harvest festival Food tech - changing materials when cooked/manipulated Design and make - House and homes.					
Hazel Year 1		Cooking and nutrition - use the basic principles of a healthy and varied diet to prepare dishes - understand where food comes from. Linked to Geography-comparing the UK to a non-EU country	Design and make – Clothing -design purposeful, functional, appealing products for themselves and other users based on design criteria -select from and use a range of tools and equipment to perform practical tasks [for example, cutting, shaping, joining and finishing Linked to science-materials	Design and make – Vehicles -design purposeful, functional, appealing products for themselves and other users based on design criteria -select from and use a range of tools and equipment to perform practical tasks [for example, cutting, shaping, joining and finishing Linked to History.	Cooking and nutrition - use the basic principles of a healthy and varied diet to prepare dishes - understand where food comes from. Linked to the English topic of Traditional Tales.	
Maple Year 2		Designing and making toys. Wood Work		Creating meals – exploring changes within mixing foods.	Design and make fridge magnets Sewing	
Cedar Year 3	Cooking and nutrition - make a stone age stew How did the change from hunting and gathering to farming impact on what we grow today?		Textiles - How has what we wear changed over time? select from and use a wider range of tools and equipment to perform practical tasks		Renewable energy - Can we make a wind turbine that uses a motor? Local area study - Swaffham wind turbine	

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	understand and apply the principles of a healthy and varied diet prepare and cook a variety of predominantly savoury dishes using a range of cooking techniques understand seasonality, and know where and how a variety of ingredients are grown, reared, caught and processed.		[for example, cutting, shaping, joining and finishing], accurately select from and use a wider range of materials and components, including construction materials, textiles and ingredients, according to their functional properties and aesthetic qualities		understand and use electrical systems in their products [for example, series circuits incorporating switches, bulbs, buzzers and motors]	
Rowan Year 4			Cooking and nutrition -understand and apply the principles of a healthy and varied diet.	Cooking and nutrition -understand and apply the principles of a healthy and varied diet.	Structures – musical instruments -understand and use mechanical systems in their products	Design and make – Puppets -generate, develop, model and communicate their ideas through discussion, annotated sketches, cross-sectional and exploded diagrams, prototypes, pattern pieces and computer-aided design -evaluate their ideas and products against their own design criteria and consider the views of others to improve their work.
Elm Year 5	Design/Build/Evaluate What materials, structures make the best bridges?			Cooking and theory diet -understand seasonality, and know where and how a variety of ingredients are grown, reared, caught and processed.	<u>Understand</u> seasonality, and know where and how a variety of ingredients are grown, reared, caught and processed.	
Sycamore Year 6	Design, build, evaluate: IQ: Can I build a shelter to withstand a natural disaster?		Keeping our community clean- Design a machine to clean up litter- changes in our world,			Cooking and theory diet -understand seasonality, and know

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			making our world a better place to live in for future generations.			where and how a variety of ingredients are grown, reared, caught and processed. Global foods and creating a menu using ingredients from our global neighbours.
Owls EYFS	Expressive Arts and Design: Creating with Materials Children will safely use and explore a variety of materials, tools and techniques, experimenting with colour, design, texture, form and function. Children will share their creations, explaining the process they have used					
	Cooking and nutrition – food banks, Harvest festival Food tech - changing materials when cooked/manipulated Design and make - House and homes.					
Owls Year 1		Design and make -design purposeful, functional, appealing products for themselves and other users based on design criteria -select from and use a range of tools and equipment to perform practical tasks [for example, cutting, shaping, joining and finishing FIRE ENGINE Moving vehicle Linked to science-materials	Cooking and nutrition - use the basic principles of a healthy and varied diet to prepare dishes - understand where food comes from. Food from around the world - impact of distance - Fairtrade		-design purposeful, functional, appealing products for themselves and other users based on design criteria -select from and use a range of tools and equipment to perform practical tasks [for example, cutting, shaping, joining and finishing	
Skylarks Years 2/3/4	Cooking and nutrition - make a stone age stew How did the change from hunting and		Textiles - How has what we wear changed over time?		Renewable energy - Can we make a wind turbine that uses a motor?	

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	<p><i>gathering to farming impact on what we grow today?</i> understand and apply the principles of a healthy and varied diet prepare and cook a variety of predominantly savoury dishes using a range of cooking techniques understand seasonality, and know where and how a variety of ingredients are grown, reared, caught and processed.</p>		<p>select from and use a wider range of tools and equipment to perform practical tasks [for example, cutting, shaping, joining and finishing], accurately select from and use a wider range of materials and components, including construction materials, textiles and ingredients, according to their functional properties and aesthetic qualities</p>		<p>Local area study - Swaffham wind turbine understand and use electrical systems in their products [for example, series circuits incorporating switches, bulbs, buzzers and motors]</p>	
<p>Kestrels Years 5/6</p>	<p>Buildings and boats How have these changed through time? Creating a structure which floats and an ancient temple. Design, build and evaluate.</p>	<p>Fast fashion- why are people making the change to move away from fast fashion? Sewing skills and repurposing old clothes.</p>	<p>Cooking and nutrition Tudor recipes and community cooking.</p>			
<p>Theme days</p>	<ul style="list-style-type: none"> - Healthy eating week: w/c 28th September - Fairtrade week w/c 20th February 					